

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Internet: ct.gov/csc

January 22, 2008

Thomas J. Regan, Esq.
Brown Rudnick Berlack Israels LLP
CityPlace I
185 Asylum Street
Hartford, CT 06103

RE: **EM-SPRINT-NEXTEL-002-071219** – Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Attorney Regan:

At a public meeting held on January 10, 2008, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 18, 2007, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Daniel F. Caruso

Chairman

DFC/MP/cm

c: The Honorable James T. DellaVolpe, Mayor, City of Ansonia Peter Crabtree, Zoning Enforcement Officer, City of Ansonia American Tower Corporation

Chuss/





THOMAS J. REGAN
Direct Dial: (860) 509-6522
tregan@brownrudnick.com

Via Federal Express

CityPlace I 185 Asylum Street Hartford Connecticut 06103 tel 860.509.6500 fax 860.509.6501

December 18, 2007

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



RE: Sprint Nextel Corporation - Exempt Modification

Dear Mr. Phelps:

Enclosed for filing is Sprint Nextel Corporation's Notice of Exempt Modification for the addition of WiMAX antennas to an existing tower at 401 Wakelee Avenue in Ansonia, Connecticut. I have also enclosed a check in the amount of \$500.00 to cover the filing fee. If you have any questions, please feel free to contact me.

Very truly yours,

BROWN RUDNICK BERLACK ISRAELS LLP

Thomas J. Regan

cc: Town of Ansonia via 1st Class Mail

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COUNCI

EM-SPRINT-NEXTEL-002-071219

In re:

Sprint Nextel Corporation's Notice to Make an

Exempt Modification to an Existing Facility at 401 Wakelee Avenue in Ansonia, Connecticut.

EXEMPT MODIFICATIO

December 18, 2007

NOTICE OF EXEMPT MODIFICATION

Pursuant to Conn. Agencies Regs. §§ 16-50j-73 and 16-50j-72(b), Sprint Nextel Corporation ("Sprint") hereby gives notice to the Connecticut Siting Council ("Council") and the Town of Ansonia of Sprint's intent to make an exempt modification to an existing lattice tower (the "Tower") located at 401 Wakelee Avenue in Ansonia, Connecticut. Specifically, Sprint plans to add WiMAX antennas and new iDEN antennas to its current iDEN antenna platform. Under the Council's regulations (Conn. Agencies Regs. § 16-50j-72(b)), Sprint's plans do not constitute a modification subject to the Council's review because Sprint will not change the height of the Tower, will not extend the boundaries of the compound, will not increase the noise levels at the site, and will not increase the total radio frequency electromagnetic radiation power density at the site to levels above applicable standards.

Sprint is currently undertaking an upgrade to its wireless communications system in Connecticut. As part of the upgrade, Sprint is implementing WiMAX technology to enable enhanced wireless data communications. In order to accomplish the upgrade at this site, Sprint plans to add three WiMAX antennas to one of its existing iDEN antenna platform and install additional WiMAX-related electronic equipment at the base of the Tower.

The Tower is a 196-foot lattice tower located at 401 Wakelee Avenue in Ansonia, Connecticut (Latitude 41.3561°, Longitude -73.0917°). The Tower is owned by American Tower Corporation. Currently, Sprint has twelve iDEN network antennas located at the top of

BROWN RUDNICK BERLACK ISRAELS LLP CITYPLACE I 185 ASYLUM STREET HARTFORD, CT 06103 860) 509-6500

the Tower with an antenna centerline at 194 feet and nine CDMA antennas located directly below the iDEN antennas with a centerline at 188 feet. The 12-foot by 20-foot iDEN equipment shelter is located at the base of the Tower within the existing compound. A short ice bridge connects the iDEN equipment shelter and the Tower. Cingular, T-Mobile, Verizon and the Ansonia Fire Department also have antennas on the Tower. A site plan with the Tower specifications is attached.

On both the alpha and gamma sectors of the platform, Sprint will continue to have four antennas. On both the alpha and gamma sectors, one iDEN antenna will be removed and replaced with one KMW-AM-X-WM-17-65-00T (WiMAX) antenna. On the beta sector, all four existing iDEN antennas will be removed. Sprint will then add two dual pole iDEN antennas to the beta sector and one WiMAX antenna, for a total of three antennas in the beta sector (one less than the existing array). All of the replacement antennas will have the same centerline as the old antennas, 194 feet. This installation will require six coaxial cables, 1-5/8" in diameter to be installed. To confirm the Tower can support these changes, Sprint commissioned American Tower Corporation to perform a structural analysis of the Tower (attached). According to the structural analysis, dated November 27, 2007, the "tower and foundation *are adequate* to support the [] loads in conformance with specified requirements" (emphasis in the original).

Sprint will also install one WiMAX equipment cabinet inside the existing iDEN equipment shelter. Hence, there will be no need to increase the size of the compound. In addition, Sprint plans to mount a global positioning system (GPS) antenna to the western side of the existing ice bridge. Therefore, excluding brief, minor, construction-related noise during the replacement of the antennas and the installation of the equipment cabinet, Sprint's changes to the Tower will not increase noise levels at the site.

BROWN RUDNICK BERLACK ISRAELS LLP CITYPLACE I 185 ASYLUM STREET HARTFORD, CT 06103 (860) 509-6500 The removal and replacement of Sprint's antennas will not adversely impact the health and safety of the surrounding community or the people working on the Tower. The total radio frequency exposure measured around the Tower will be well below the National Council on Radiation Protection and Measurements' ("NCRP") standard adopted by the Federal Communications Commission ("FCC"). The worst-case power density analysis measured at the base of the Tower indicates that the WiMAX antennas and iDEN antennas will emit 1.61% and 2.02% respectively of the NCRP's standard for maximum permissible exposure. A cumulative power density analysis indicates that together, all of the antennas on the Tower will emit only 22.82% of the NCRP's standard for maximum permissible exposure. Therefore, the power density levels will be well below the FCC mandated radio frequency exposure limits in all locations around the Tower, even with extremely conservative assumptions. The power density analysis is attached.

In conclusion, Sprint's proposed plan to remove and replace antennas on this Tower does not constitute a modification subject to the Council's jurisdiction because Sprint will not increase the height of the Tower, will not extend the boundaries of the site, will not increase the noise levels at the site, and the total radio frequency electromagnetic radiation power density will stay within all applicable standards. *See* Conn. Agencies Regs. § 16-50j-72.

Sprint Nextel Corporation

Bv:

Thomas J. Regan

Brown Rudnick Berlack Israels LLP 185 Asylum Street, CityPlace I

Hartford, CT 06103-3402

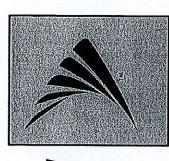
Email - tregan@brownrudnick.com

Phone - 860.509.6522

Fax - 860.509.6622

BROWN RUDNICK BERLACK ISRAELS LLP CITYPLACE I 185 ASYLUM STREET HARTFORD, CT 06103 (860) 509-6500

Sprint Nextel Corp.



Corp. 1 INTERNATIONAL BLVD., SUITE 800 MAHWAH, NJ 07495

Sprint Nextel

TRANSCEND WIRELESS, LLC

479 ROUTE 17 NORTH, 2ND FLOOR MAHWAH, NJ 07430

URS CORPORATION AES

500 ENTERPRISE DRIVE, SUITE 3B ROCKY HILL, CONNECTICUT 1-(860)-529-8882

ANSONIA - WAKELEE AVENUE

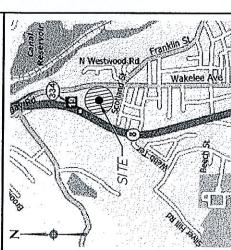
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401 WAKELEE AVENUE ANSONIA, CT 06401

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_		TITLE SHEET - GENERAL NOTES AND LEGENDS	N	NO
SHEET INDEX	DESCRIPTION	TITLE SHEET -	COMPOUND PLAN	TOWER ELEVATION
SE	SHT.	11	SC-1	SC-2

DRIVING DIRECTIONS

MERGE ONTO CT-15 S / WILBUR CROSS PKWY VIA EXIT 17. TAKE THE WAKELEE AVENUE / CT-334 EXIT- EXIT 19. MERGE ONTO CT-34 W VIA EXIT 58 TOWARD DERBY. WERGE ONTO CT-8 N TOWARD WATERBURY. MERGE ONTO 1-91 S TOWARD NEW HAVEN. TURN LEFT ONTO WEST ST.

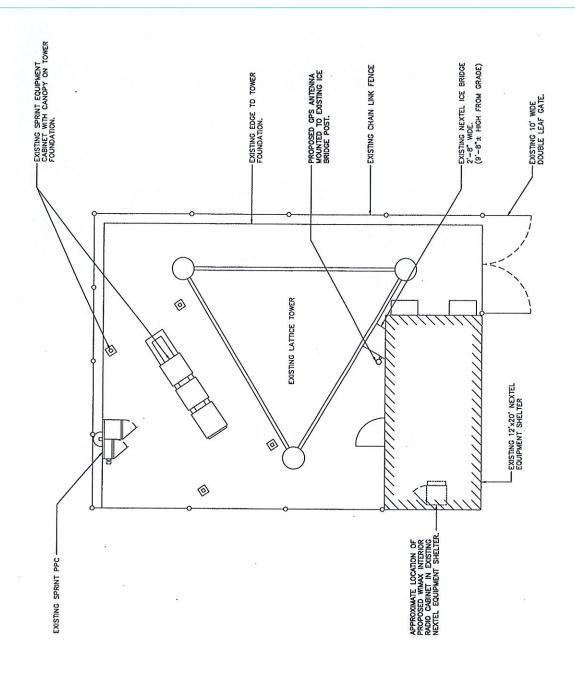
TURN RIGHT ONTO WAKELEE AVE / CT-334. END AT 401 WAKELEE AVE ANSONIA, CT 06401, US

PROJECT INDEX	DEX .	
SITE NUMBER:	CT01YC264/NCT0754	
SITE NAME:	ANSONIA - WAKELEE AVENUE	
SITE ADDRESS:	401 WAKELEE AVENUE ANSONIA, CT 06401	
APPLICANT:	SPRINT NEXTEL CORP. 1 INTERNATIONAL BLVD, SUITE 800 MAHWAH, NJ 07495	800
CONTACT:	JASON DEIBERT (347) 284-8617	17
PROPERTY OWNER:	AMERICAN TOWER CORPORATION	7
JURISDICTION:	CONNECTICUT SITING COUNCIL	
LATITUDE: LONGITUDE:	41,3561° -73,0917°	

ANSONIA - WAKELEE AVENUE

CT01YC264/NCT0754 401 WAKELEE AVENUE ANSONIA, CT 06401

TW1-036 DRAWING NAME DATE SHEET NO.REN 36917296 T-1 12/12/07 1 0F 3 A





1 INTERNATIONAL BLVD., SUITE 800 MAHWAH, NJ 07495 Corp.

TRANSCEND WIRELESS, LLC 479 ROUTE 17 NORTH, 2ND FLOOR MAHWAH, NJ 07430

A&E FIRM

URS CORPORATION AES

500 ENTERPRISE DRIVE, SUITE 3B ROCKY HILL, CONNECTICUT 1-(860)-529-8882

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SITING COUNCIL	REVIEW	REVISIONS	DESIGNED BY: PJS DRAWN BY: RRH
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A&E SEAL



ANSONIA - WAKELEE AVENUE

CT01YC264/NCT0754 401 WAKELEE AVENUE ANSONIA, CT 06401

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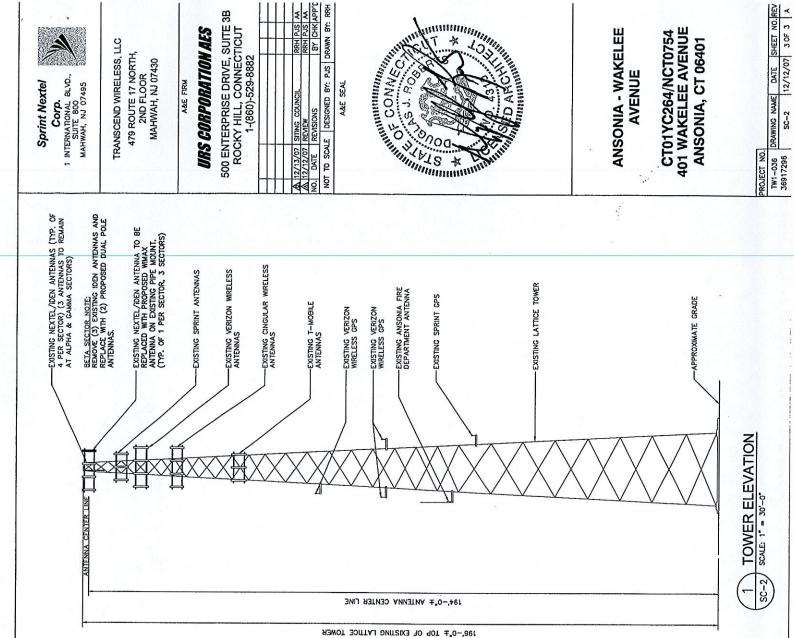
COMPOUND PLAN

SCALE: 1" = 20'-0"

SC-1

ORTH

TW1-036 ORAWING NAME DATE SHEET NO REV 36917296 SC-1 12/12/07 2.0F 3 A



RRH PJS AA RRH PJS AA BY CHK APP'C

SITING COUNCIL

A&E SEAL

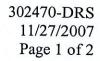
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A&E FIRM

Sprint Nextel

Corp.

AVENUE





Level 1 Structural Evaluation ¹				
ATC Site Number & Name	302470, Ansonia Wakelee	Engineering ID: 41117813		
Carrier Site Number & Name	CT01YC264 CT0754, Ansonia Wakelee			
Site Address	401 Wakelee Ave			
	Ansonia, Connecticut 06401			
	New Haven County			
Tower Description	196 ft Rohn Self Support Tower			
Standards & Codes ²	ANSI/TIA/EIA-222-F (1996)	2003 International Building Code		
	85 mph w/0" radial ice	w/ Connecticut Supplements		
	74 mph w/½" radial ice	90 mph w/0" radial ice		

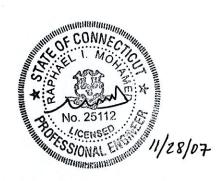
Table 1: Existing and Proposed Antenna Configuration				
HEIGHT (Ft)	ANTENNA	CARRIER	COAX	STATUS
194	(9) Decibel DB844H90E-XY on Sector Frame Mounts	Nextel ^b	(9) 1 1/4" (12) 1-5/8"	Existing
194	(3) KMW AM-X-WM-17-65-00T (3) KMW KMDAPS2050000 on Sector Frame Mounts	Nextel ^b	(6) 1 5/8"	Proposed
188	(6) Decibel DB950F65E-M on Sector Frame Mounts	Sprint	(6) 1-5/8"	Existing
178	(6) Decibel 948F85T2E-M (6) Decibel DB844H90 on Sector Frame Mounts	Verizon	(12) 1-5/8"	Existing
167	(6) CSS DUO1417-8686(6) ADC TMDD1900(3) Powerwave 7770-1(3) Powerwave LGP13519on Sector Frame Mounts	Cingular	(12) 1-1/4"	Existing
148	(6) EMS 5' Panels on Sector Frame Mounts	T-Mobile	(12) 1-5/8"	Existing
124	(1) GPS Antenna on Side Arm Mount	Verizon	(1) 1/2"	Existing
104	(2) GPS Antenna on Side Arm Mounts	Verizon	(2) 1/2"	Existing
82	(1) 9.5' Omni on Stand Off Mount	Ansonia Fire Dept.	(1) 1/2"	Existing
76	(1) GPS Antenna on Side Arm Mount	Sprint	(1) 1/2"	Existing

^a Coax to be installed on an empty tower face.
^b Sprint Nextel is allowed an equipment configuration not to exceed (9) 48" x 12" and (3) 72" x 12" panels w/(12) 1-5/8" coax.





The subject tower and foundation are adequate to support the above stated loads in conformance with specified requirements.³



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Connecticut.

The existing and proposed loads of Table 1 are compared to the tower's current design capacity or previous analysis.

² The design wind criteria are compared to the current code requirements.

³ The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in *Table 1*.



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Daniel F. Caruso Chairman

December 19, 2007

The Honorable James T. DellaVolpe Mayor City of Ansonia City Hall 253 Main Street Ansonia, CT 06401-1866

RE: EM-SPRINT-NEXTEL-002-071219 - Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Mayor DellaVolpe:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for January 10, 2008, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the Council by January 9, 2008.

Thank you for your cooperation and consideration.

S Derek Phelps Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Peter Crabtree, Zoning Enforcement Officer, City of Ansonia

